

HyProGen® GS-23 Extr 1.6

0100

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Substance key: SC0000106963

Revision Date: 07/29/2015

Version : 1 - 2 / USA

Date of printing :01/11/2016

**SECTION 1. IDENTIFICATION****Identification of the company:**

Clariant Corporation  
4000 Monroe Road  
Charlotte, NC, 28205  
Telephone No.: +1 704 331 7000

**Information of the substance/preparation:**

Product Safety 1-704-331-7710

**Emergency tel. number:** +1 800-424-9300 CHEMTREC**Trade name:****HyProGen® GS-23 Extr 1.6      0100****Material number:**

246987

**Chemical family:**

Copper oxide on synthetic aluminosilicate (zeolite)

**Primary product use:**

desulfurization of gases

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

- Acute toxicity (Oral) : Category 4
- Skin irritation : Category 2
- Eye irritation : Category 2B
- Specific target organ toxicity - single exposure : Category 3 (Respiratory system)
- Specific target organ toxicity - repeated exposure : Category 2 (Lungs)

**GHS Label element****Hazard pictograms****Signal word**

: Warning

**Hazard statements**

: H302 Harmful if swallowed.  
H315 + H320 Causes skin and eye irritation.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs (Lungs) through prolonged or repeated exposure.

**Precautionary statements**

: **Prevention:**  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

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P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves.

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/ attention if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

Hazards Not Otherwise Classified:

Particulates of this material may cause mechanical irritation to the skin, eye and/or respiratory tract.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature

- Copper oxide on synthetic aluminosilicate (zeolite)

**Hazardous components**

Chemical Name	CAS-No.	Concentration (%)
Zeolite, cuboidal, crystalline, synthetic, non-fibrous	1318-02-1	>= 75
Copper oxide	1317-38-0	<= 25

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**SECTION 4. FIRST AID MEASURES**

General advice : none

If inhaled : Remove to fresh air.  
Call a physician if irritation develops or persists.

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Call a physician if symptoms occur.

- |   |   |   |
|---|---|---|
| In case of skin contact                                     | : | Before washing use a dry brush to remove dust from skin.<br>Wash area with mild soap and copious amounts of water.<br>If skin irritation occurs: Get medical advice/ attention. |
| In case of eye contact                                      | : | Do not rub affected area.<br>Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes.<br>Get medical attention.                        |
| If swallowed  | : | Route of exposure unlikely.<br>IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.   |
| Most important symptoms and effects, both acute and delayed | : | The possible symptoms known are those derived from the labelling (see section 2).<br>No additional symptoms are known.  |
| Notes to physician  | : | May complicate Wilson's Disease. May cause metal fume fever.  |

## SECTION 5. FIREFIGHTING MEASURES

- |   |   |  |
|---|---|--|
| Suitable extinguishing media                  | : | The product itself does not burn.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.   |
| Unsuitable extinguishing media                | : | No information available.  |
| Specific hazards during firefighting          | : | None known.  |
|   |   | Product does not normally present a fire or explosion hazard. However, dusts may be ignited by static discharge or flame especially if suspended in a dust-laden air cloud. Avoid generation of dusts. Avoid any condition that will suspend or float particles in the air. Normal precautions for flammable dusts should be followed. |
| Further information                           | : | Wear full protective clothing and NIOSH/MSHA-approved positive pressure, self-contained breathing apparatus.   |
| Special protective equipment for firefighters | : | No special precautions required.   |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : Do not breathe dust.  
Material should be swept up or vacuumed, using ventilation to control the level of airborne dust. Avoid using compressed air or any method that creates airborne dust. If cleanup may create airborne dust, personnel should wear eye, skin, and respiratory protection.  
Do not use compressed air for cleaning purposes.  
Refer to Section 8 for more information.
- Environmental precautions : No special environmental precautions required.
- Methods and materials for containment and cleaning up : Take up uncontaminated material and pass on for further processing.  
Take up contaminated material by mechanical means, load into clean containers, and dispose of in accordance with legal regulations.

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : No special precautions required.
- Advice on safe handling : Minimize dust generation and accumulation.  
Avoid breathing dust.  
Use only in well-ventilated areas.  
Avoid contact with eyes.  
Avoid prolonged or repeated contact with skin.  
Wash thoroughly after handling.  
CAUTION: Dry powders in powder or bead form may build up static electricity when being poured.
- Conditions for safe storage : Keep container tightly closed and dry.
- Technical measures/Precautions : Keep container dry.
- Materials to avoid : No materials to be especially mentioned.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

- Engineering measures** : Use adequate exhaust ventilation and/or dust collection to keep dust levels below exposure limits.

### Personal protective equipment

- Respiratory protection : Wear NIOSH approved particulate filtering respirator rated N, R, or P95 or 100 or equivalent in the absence of proper environmental control. Type of respirator depends on level of

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exposure.

Hand protection

Remarks

: Chemical resistant gloves

Eye protection

: Follow facility guidelines in the absence of dusts.  
Tightly fitting safety goggles

Skin and body protection

: Wear protective clothing, including long sleeves and gloves,  
to prevent skin contact.  
Thoroughly wash clothing before reuse.

Hygiene measures

: Wash off with warm water and soap.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: extrusions

Particle size :

not tested.

Colour

: blue-grey

Odour

: none

Odour Threshold

: cannot be determined

pH

: not determined

Melting point

: not determined

Boiling point

: Not applicable

Flash point

: Not applicable

Evaporation rate

: Not applicable

Flammability (solid, gas)

: not determined

Upper explosion limit

: not tested.

Lower explosion limit

: not tested.

Combustion number :

not determined

Vapour pressure

:  
Not applicable

Relative vapour density

: Not applicable

Relative density

: not tested.

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Density	: no data available
Bulk density	: 500 g/l
Solubility(ies)	
Water solubility	: insoluble
Solubility in other solvents	: not tested.
Partition coefficient: n-octanol/water	: not determined
Auto-ignition temperature	: Not applicable
Decomposition temperature	: no data available
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable
Flow time	: Not applicable
Explosive properties	: no data available
Oxidizing properties	: not tested.
Sublimation point	: not determined

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable under recommended storage conditions.
Chemical stability	: The product is chemically stable.
Possibility of hazardous reactions	: None known.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition products	: No decomposition if stored and applied as directed.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Eye contact  
Skin contact

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Ingestion

Inhalation

## Acute toxicity

### Product:

Acute oral toxicity : Remarks: no data available

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

### Components:

#### **Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Acute oral toxicity : LD50 (Rat, male and female): > 5,110 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC50 (Rat, male and female): > 3.35 mg/l  
Exposure time: 4 h  
Method: Other  
GLP: No information available.

Acute dermal toxicity : LD50 (Rabbit, female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: no

#### **Copper oxide:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402

## Skin corrosion/irritation

### Product:

Remarks: no data available

### Components:

#### **Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Species: Rabbit  
Exposure time: 4 h  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

#### **Copper oxide:**

Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation

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**Serious eye damage/eye irritation****Product:**

Remarks: no data available

**Components:****Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Species: rabbit eye

Result: No eye irritation

Exposure time: 168 h

Method: OECD Test Guideline 405

GLP: yes

**Copper oxide:**

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

**Respiratory or skin sensitisation****Product:**

Remarks: no data available

**Components:****Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Test Type: Buehler Test

Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

GLP: no

**Copper oxide:**

Species: Guinea pig

Method: OECD Test Guideline 406

Result: non-sensitizing

**Germ cell mutagenicity****Components:****Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Genotoxicity in vitro

: Test Type: Ames test

Species: Salmonella typhimurium

Concentration: 156 - 5000 µg/plate

Metabolic activation: with and without

Method: Ames test

Result: negative

GLP: no

: Test Type: In vitro gene mutation study in mammalian cells

Species: mouse lymphoma cells

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Concentration:  $\leq 160 \mu\text{g/ml}$   
Metabolic activation: with and without  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

: Test Type: Chromosome Aberration Test  
Species: Chinese hamster ovary cells  
Concentration: 27,5 - 400  $\mu\text{g/ml}$   
Metabolic activation: with and without  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

## Genotoxicity in vivo

: Test Type: Chromosome Aberration Test  
Species: Rat (male)  
Strain: Sprague-Dawley  
Cell type: Bone marrow  
Application Route: oral (gavage)  
Exposure time: single administration  
Dose: 4,25 - 42,5 - 425 - 5000 mg/kg  
Method: OECD Test Guideline 475  
Result: negative  
GLP: no

Test Type: dominant lethal test  
Species: Rat (male)  
Application Route: oral (gavage)  
Exposure time: single administration  
Dose: 4,25 - 42,5 - 425 - 5000 mg/kg  
Method: OECD Test Guideline 478  
Result: negative  
GLP: no

Test Type: Micronucleus test  
Species: Mouse (male and female)  
Strain: Swiss Webster  
Cell type: Bone marrow  
Application Route: oral (gavage)  
Exposure time: 4x in 96 h  
Dose: 1250 - 2500 - 5000 mg/kg  
Method: OECD Test Guideline 474  
Result: negative  
GLP: no

Germ cell mutagenicity -  
Assessment

: It is concluded that the product is not mutagenic based on  
evaluation of several mutagenicity tests.

**Carcinogenicity****Components:****Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Carcinogenicity -

: Animal testing did not show any carcinogenic effects.

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## Assessment

**IARC** Not listed**OSHA** Not listed**NTP** Not listed

## Reproductive toxicity

Components:**Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Effects on fertility :

Test Type: Fertility/early embryonic development  
Species: Rat  
Sex: male  
Dose: 0,125 - 2,0 % in diet  
Exposure time: 160 - 200 d  
Frequency of Treatment: daily  
Application Route: oral (feed)  
Group: yes  
NOAEL: > 1,250 mg/kg,  
Method: Other  
GLP: no

Effects on foetal development :

Species: Rat  
Application Route: oral (gavage)  
Exposure time: gestation days 6 - 15  
Dose: 74 - 1600 mg/kg  
Group: yes  
>1,600 mg/kg  
> 1,600 mg/kg  
Number of exposures: daily  
Method: OECD Test Guideline 414  
GLP: no

Reproductive toxicity - Assessment :

No reproductive toxicity to be expected.  
No teratogenic effects to be expected.

**STOT - single exposure**Components:**Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

**STOT - repeated exposure**Components:**Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

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**Repeated dose toxicity****Components:****Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Species: Rat, male and female

NOAEL: 250 - 600 mg/kg

Application Route: oral (feed)

Exposure time: 90 d

Number of exposures: daily

Dose: 1000 - 5000 - 10000 ppm

Group: yes

Method: Repeated Dose Toxicity (subchronic study)

GLP: no

Species: Rat, male

NOAEL: &gt; 0.02 mg/l

Application Route: Inhalation

Exposure time: 4 w

Number of exposures: 5 hours/day, 3 times/week

Dose: 20 mg/m3

Group: yes

Method: Repeated Dose Toxicity (subacute study)

GLP: no

Application Route: Skin contact

Remarks: This information is not available.

**Aspiration toxicity****Components:****Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

No aspiration toxicity classification

**Experience with human exposure****Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

**Further information****Product:**

Remarks: No data is available on the product itself.

Handle in accordance with good industrial hygiene and safety practice.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

Toxicity to fish :  
Remarks: no data available

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**Components:****Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Toxicity to fish : NOEC (Pimephales promelas (fathead minnow)): > 680 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: EPA  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to daphnia and other aquatic invertebrates : NOEC (Penaues duorarum): > 780 mg/l  
Exposure time: 96 h  
Test Type: static test  
Analytical monitoring: yes  
Method: EPA  
GLP: no  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 130 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: static test  
Analytical monitoring: no  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): > 86.7 mg/l  
Exposure time: 30 d  
Test Type: flow through  
Analytical monitoring: yes  
Method: Other  
GLP: no

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 680 mg/l  
Exposure time: 21 d  
End point: Reproduction rate  
Test Type: semi-static test  
Analytical monitoring: no  
Method: OECD Test Guideline 211  
GLP: yes  
Remarks: The details of the toxic effect relate to the nominal concentration.

Toxicity to bacteria : EC50 (Pseudomonas putida): 950 mg/l  
End point: Bacteria toxicity (growth inhibition)  
Exposure time: 16 h  
Test Type: aquatic  
Analytical monitoring: no

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Method: DIN 38412 T.8

GLP: yes

Remarks: By analogy with a product of similar composition  
The details of the toxic effect relate to the nominal  
concentration.

Toxicity to soil dwelling  
organisms

: Remarks: Not applicable

Plant toxicity

: LC50 (Raphanus sativus): > 240,000 mg/kg

Exposure time: 21 d

End point: emergence

Analytical monitoring: no

Method: OECD 208

GLP: yes

NOEC (Raphanus sativus): 60,000 mg/kg

Exposure time: 21 d

End point: Growth

Analytical monitoring: no

Method: OECD 208

GLP: yes

EC50 (Avena sativa (oats)): 9,000 mg/kg

Exposure time: 23 d

End point: Growth

Analytical monitoring: no

Method: OECD 208

GLP: yes

NOEC (Avena sativa (oats)): 5,000 mg/kg

Exposure time: 23 d

Analytical monitoring: no

Method: OECD 208

GLP: yes

Sediment toxicity

: NOEC: > 100 mg/l

Analytical monitoring: no

Sediment: artificial soil

Nominal / Measured: nominal

Basis for effect: Reproduction

Test substance: artificial soil

Analytical monitoring: no

Method: Other

GLP: no

Toxicity to terrestrial  
organisms

: Remarks: Not applicable

**Copper oxide:**

Toxicity to fish

: Remarks: For this material no values were determined. The  
classification is based on read across data analogous  
substances.

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**Persistence and degradability****Product:**

Biodegradability : Remarks: no data available

**Components:****Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Stability in water : Test Type: abiotic  
Degradation half life: ca. 60 d pH: 8.2  
Method: Other  
GLP: no

Photodegradation : Remarks: Not applicable

**Copper oxide:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: no data available

**Components:****Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Bioaccumulation : Remarks: Not applicable

**Copper oxide:**

Bioaccumulation : Remarks: Not applicable

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: no data available

**Components:****Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**Distribution among environmental compartments : Remarks: Slightly mobile in soils  
The product is insoluble and sinks in water.**Copper oxide:**

Distribution among environmental compartments : Remarks: After release, adsorbs onto soil.

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## Other adverse effects

### Product:

Additional ecological information : May cause long lasting harmful effects to aquatic life.  
Do not allow to enter ground water, waterways or waste water.

### Components:

#### **Zeolite, cuboidal, crystalline, synthetic, non-fibrous:**

Environmental fate and pathways : not available

Results of PBT and vPvB assessment : Remarks: Not applicable

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

### Components:

#### **Copper oxide:**

Results of PBT and vPvB assessment : Remarks: Not relevant for inorganic substances

Additional ecological information : slightly water endangering

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

RCRA - Resource Conservation and Recovery Authorization Act Waste Code : No -- Not as sold.  
: NONE

Waste from residues : This product, if discarded as sold, is not a Federal RCRA hazardous waste. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

Contaminated packaging : Dispose of as unused product.

## SECTION 14. TRANSPORT INFORMATION

DOT not restricted

IATA not restricted

IMDG not restricted

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## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 311/312 Hazards

: Acute Health Hazard  
Chronic Health Hazard

#### SARA 302

: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313

: This product contains the chemical or chemicals listed below which are subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act of 1986 ("SARA") and the requirements of 40 CFR Part 372:

Copper	7440-50-8	19.75 %
Copper Compound	Not Assigned	25 %

### Clean Water Act

Contains the following Priority Pollutant(s) at concentrations greater than 0.1%.: Copper

### The components of this product are reported in the following inventories:

TSCA : All components of this product are listed or excluded from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) Inventory.

### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

## SECTION 16. OTHER INFORMATION

### Further information

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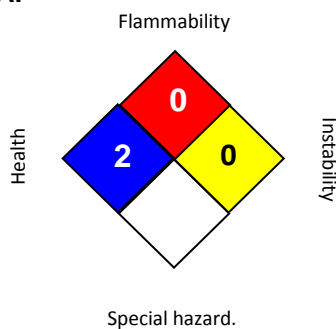
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## NFPA:



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This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications.

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